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Ser Ser Ser Gly Val Leu Met Val Gly Pro Asn Phe Arg Val Gly Lys
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Lys Ile Gly Cys Gly Asn Phe Gly Glu Leu Arg Leu Gly Lys Asn Leu
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Tyr Thr Asn Glu Tyr Val Ala Ile Lys Leu Glu Pro Ile Lys Ser Arg
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Ala Pro Gln Leu His Leu Glu Tyr Arg Phe Tyr Lys Gln Leu Gly Ser
85 90 95

Ala Gly Glu Gly Leu Pro Gln Val Tyr Tyr Phe Gly Pro Cys Gly Lys
100 105 110

Tyr Asn Ala Met Val Leu Glu Leu Leu Gly Pro Ser Leu Glu Asp Leu
115 120 125

Phe Asp Leu Cys Asp Arg Thr Phe Thr Leu Lys Thr Val Leu Met Ile
130 135 140

Ala Ile Gln Leu Leu Ser Arg Met Glu Tyr Val His Ser Lys Asn Leu
145 150 155 160

Ile Tyr Arg Asp Val Lys Pro Glu Asn Phe Leu Ile Gly Arg Gln Gly
165 170 175

Asn Lys Lys Glu His Val Ile His Ile Ile Asp Phe Gly Leu Ala Lys
180 185 190

Glu Tyr Ile Asp Pro Glu Thr Lys Lys His Ile Pro Tyr Arg Glu His
195 200 205

Lys Ser Leu Thr Gly Thr Ala Arg Tyr Met Ser Ile Asn Thr His Leu
210 215 220

Gly Lys Glu Gln Ser Arg Arg Asp Asp Leu Glu Ala Leu Gly His Met
225 230 235 240

Phe Met Tyr Phe Leu Arg Gly Ser Leu Pro Trp Gln Gly Leu Lys Ala
245 250 255

Asp Thr Leu Lys Glu Arg Tyr Gln Lys Ile Gly Asp Thr Lys Arg Asn
Page 19

260

Thr Pro Ile Glu Ala Leu Cys Glu Asn Phe Pro Glu Glu Met Ala Thr
275 280 285

Tyr Leu Arg Tyr Val Arg Arg Leu Asp Phe Phe Glu Lys Pro Asp Tyr
290 295 300

Glu Tyr Leu Arg Thr Leu Phe Thr Asp Leu Phe Glu Lys Lys Gly Tyr
305 310 315 320

Thr Phe Asp Tyr Ala Tyr Asp Trp Val Gly Arg Pro Ile Pro Thr Pro
325 330 335

Val Gly Ser Val His Val Asp Ser Gly Ala Ser Ala Ile Thr Arg Glu
340 345 350

Ser His Thr His Arg Asp Arg Pro Ser Gln Gln Gln Pro Leu Arg Asn
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Ala Ile Trp His Arg Gly Arg Gly Thr
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<213> Homo sapiens

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Ser Gly Thr Ser Ser Gly Val Leu Met Val Gly Pro Asn Phe Arg Val
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Gly Lys Lys Ile Gly Cys Gly Asn Phe Gly Glu Leu Arg Leu Gly Lys
50 55 60

Asn Leu Tyr Thr Asn Glu Tyr Val Ala Ile Lys Leu Glu Pro Ile Lys
65 70 75 80

Ser Arg Ala Pro Gln Leu His Leu Glu Tyr Arg Phe Tyr Lys Gln Leu
Page 20

Ser Ala Thr Glu Gly Val Pro Gln Val Tyr Tyr Phe Gly Pro Cys Gly
 100 105 110
 Lys Tyr Asn Ala Met Val Leu Glu Leu Leu Gly Pro Ser Leu Glu Asp
 115 120 125
 Leu Phe Asp Leu Cys Asp Arg Thr Phe Thr Leu Lys Thr Val Leu Met
 130 135 140
 Ile Ala Ile Gln Leu Ile Thr Arg Met Glu Tyr Val His Thr Lys Ser
 145 150 155 160
 Leu Ile Tyr Arg Asp Val Lys Pro Glu Asn Phe Leu Val Gly Arg Pro
 165 170 175
 Gly Thr Lys Arg Gln His Ala Ile His Ile Ile Asp Phe Gly Leu Ala
 180 185 190
 Lys Glu Tyr Ile Asp Pro Glu Thr Lys Lys His Ile Pro Tyr Arg Glu
 195 200 205
 His Lys Ser Leu Thr Gly Thr Ala Arg Tyr Met Ser Ile Asn Thr His
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 Leu Gly Lys Glu Gln Ser Arg Arg Asp Asp Leu Glu Ala Leu Gly His
 225 230 235 240
 Met Phe Met Tyr Phe Leu Arg Gly Ser Leu Pro Trp Gln Gly Leu Lys
 245 250 255
 Ala Asp Thr Leu Lys Glu Arg Tyr Gln Lys Ile Gly Asp Thr Lys Arg
 260 265 270
 Ala Thr Pro Ile Glu Val Leu Cys Glu Asn Phe Pro Glu Glu Met Ala
 275 280 285
 Thr Tyr Leu Arg Tyr Val Arg Arg Leu Asp Phe Phe Glu Lys Pro Asp
 290 295 300
 Tyr Asp Tyr Leu Arg Lys Leu Phe Thr Asp Leu Phe Asp Arg Ser Gly
 305 310 315 320
 Phe Val Phe Asp Tyr Glu Tyr Asp Trp Ala Gly Lys Pro Leu Pro Thr
 325 330 335

Pro Ile Gly Thr Val His Thr Asp Leu Pro Ser Gln Pro Gln Leu Arg
 340 345 350

Asp Lys Thr Gln Pro His Ser Lys Asn Gln Ala Leu Asn Ser Thr Asn
 355 360 365

Gly Glu Leu Asn Ala Asp Asp Pro Thr Ala Gly His Ser Asn Ala Pro
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Cys Phe Phe Lys Arg Arg Lys Arg Lys Ser Leu Gln Arg His Lys
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Arg Met Ser Lys Ala Gly Gly Gly Arg Ser Ser His Gly Ile Arg Ser
 20 25 30

Ser Gly Thr Ser Ser Gly Val Leu Met Val Gly Pro Asn Phe Arg Val
 35 40 45

Gly Lys Lys Ile Gly Cys Gly Asn Phe Gly Glu Leu Arg Leu Gly Lys
 50 55 60

Asn Leu Tyr Thr Asn Glu Tyr Val Ala Ile Lys Leu Glu Pro Ile Lys
 65 70 75 80

Ser Arg Ala Pro Gln Leu His Leu Glu Tyr Arg Phe Tyr Lys Gln Leu
 85 90 95

Ser Ala Thr Glu Gly Val Pro Gln Val Tyr Tyr Phe Gly Pro Cys Gly
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Asn Tyr Asn Ala Met Val Leu Glu Leu Leu Gly Pro Ser Leu Glu Asp
 115 120 125

Leu Phe Asp Leu Cys Asp Arg Thr Phe Thr Leu Lys Thr Val Leu Met
 130 135 140

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Ile Ala Ile Gln Leu Ile Thr Arg Met Glu Tyr Val His Thr Lys Ser
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Leu Ile Tyr Arg Asp Val Lys Pro Glu Asn Phe Leu Val Gly Arg Pro
 165 170 175

Gly Thr Lys Arg Gln His Ala Ile His Ile Ile Asp Phe Gly Leu Ala
 180 185 190

Lys Glu Tyr Ile Asp Pro Glu Thr Lys Lys His Ile Pro Tyr Arg Glu
 195 200 205

His Lys Ser Leu Thr Gly Thr Ala Arg Tyr Met Ser Ile Asn Thr His
 210 215 220

Leu Gly Lys Glu Gln Ser Arg Arg Asp Asp Leu Glu Ala Leu Gly His
 225 230 235 240

Met Phe Met Tyr Phe Leu Arg Gly Ser Leu Pro Trp Gln Gly Leu Lys
 245 250 255

Ala Asp Thr Leu Lys Glu Arg Tyr Gln Lys Ile Gly Asp Thr Lys Arg
 260 265 270

Ala Thr Pro Ile Glu Val Leu Cys Glu Asn Phe Pro Glu Glu Met Ala
 275 280 285

Thr Tyr Leu Arg Tyr Val Arg Arg Leu Asp Phe Phe Glu Lys Pro Asp
 290 295 300

Tyr Asp Tyr Leu Arg Lys Leu Phe Thr Asp Leu Phe Asp Arg Ser Gly
 305 310 315 320

Phe Val Phe Asp Tyr Glu Tyr Asp Trp Ala Gly Lys Pro Leu Pro Thr
 325 330 335

Pro Ile Gly Thr Val His Thr Asp Leu Pro Ser Gln Pro Gln Leu Arg
 340 345 350

Asp Lys Thr Gln Pro His Ser Lys Asn Gln Ala Leu Asn Ser Thr Asn
 355 360 365

Gly Glu Leu Asn Ala Asp Asp Pro Thr Ala Gly His Ser Asn Ala Pro
 370 375 380

Ile Thr Ala Pro Ala Glu Val Glu Val Ala Asp Glu Thr Lys Cys Cys
 385 390 395 400

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 405 410 415

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<400> 16

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 20 25 30

Ser Ser Gly Val Leu Met Val Gly Pro Asn Phe Arg Val Gly Lys Lys
 35 40 45

Ile Gly Cys Gly Asn Phe Gly Glu Leu Arg Leu Gly Lys Asn Leu Tyr
 50 55 60

Thr Asn Glu Tyr Val Ala Ile Lys Leu Glu Pro Met Lys Ser Arg Ala
 65 70 75 80

Pro Gln Leu His Leu Glu Tyr Arg Phe Tyr Lys Gln Leu Gly Ser Gly
 85 90 95

Asp Gly Ile Pro Gln Val Tyr Tyr Phe Gly Pro Cys Gly Lys Tyr Asn
 100 105 110

Ala Met Val Leu Glu Leu Leu Gly Pro Ser Leu Glu Asp Leu Phe Asp
 115 120 125

Leu Cys Asp Arg Thr Phe Ser Leu Lys Thr Val Leu Met Ile Ala Ile
 130 135 140

Gln Leu Ile Ser Arg Met Glu Tyr Val His Ser Lys Asn Leu Ile Tyr
 145 150 155 160

Arg Asp Val Lys Pro Glu Asn Phe Leu Ile Gly Arg Pro Arg Asn Lys
 165 170 175

Thr Gln Gln Val Ile His Ile Ile Asp Phe Gly Leu Ala Lys Glu Tyr
 180 185 190

Ile Asp Pro Glu Thr Lys Lys His Ile Pro Tyr Arg Glu His Lys Ser
 195 200 205

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Leu Thr Gly Thr Ala Arg Tyr Met Ser Ile Asn Thr His Leu Gly Lys
 210 215 220
 Glu Gln Ser Arg Arg Asp Asp Leu Glu Ala Leu Gly His Met Phe Met
 225 230 235 240
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 245 250 255
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 260 265 270
 Ile Glu Val Leu Cys Glu Asn Phe Pro Glu Met Ala Thr Tyr Leu Arg
 275 280 285
 Tyr Val Arg Arg Leu Asp Phe Phe Glu Lys Pro Asp Tyr Glu Tyr Leu
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 Arg Lys Leu Phe Thr Asp Leu Phe Asp Arg Lys Gly Tyr Met Phe Asp
 305 310 315 320
 Tyr Glu Tyr Asp Trp Ile Gly Lys Gln Leu Pro Thr Pro Val Gly Ala
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 Val Gln Gln Asp Pro Ala Leu Ser Ser Asn Arg Glu Ala His Gln His
 340 345 350
 Arg Asp Lys Met Gln Gln Ser Lys Asn Gln Ser Ala Asp His Arg Ala
 355 360 365
 Ala Trp Asp Ser Gln Gln Ala Asn Pro His His Leu Arg Ala His Leu
 370 375 380
 Ala Ala Asp Arg His Gly Gly Ser Val Gln Val Val Ser Ser Thr Asn
 385 390 395 400
 Gly Glu Leu Asn Thr Asp Asp Pro Thr Ala Gly Arg Ser Asn Ala Pro
 405 410 415
 Ile Thr Ala Pro Thr Glu Val Glu Val Met Asp Glu Thr Lys Cys Cys
 420 425 430
 Cys Phe Phe Lys Arg Arg Lys Arg Lys Thr Ile Gln Arg His Lys
 435 440 445